

Fig. 1

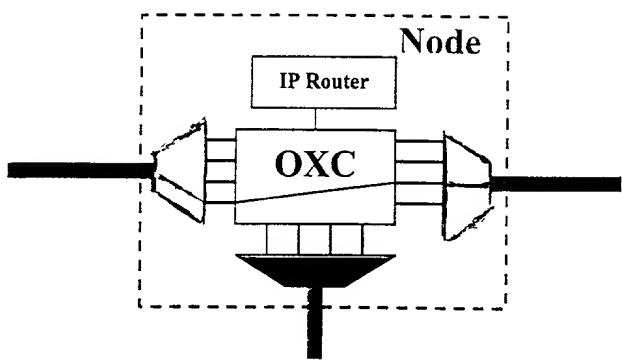


Fig. 2

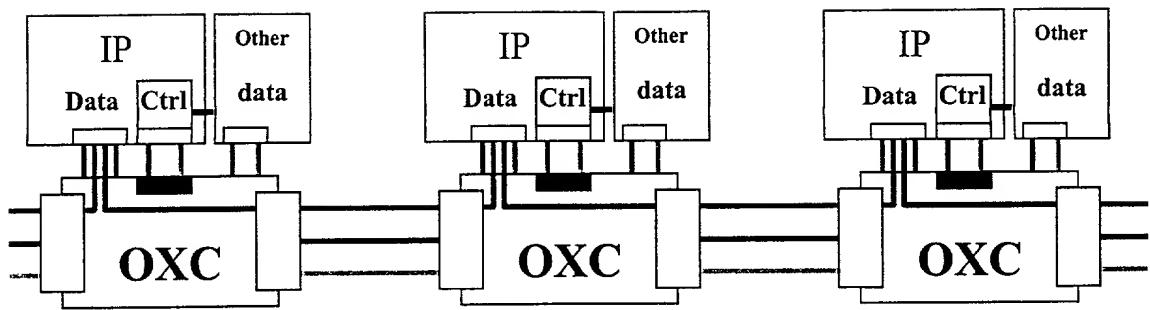


Fig. 3

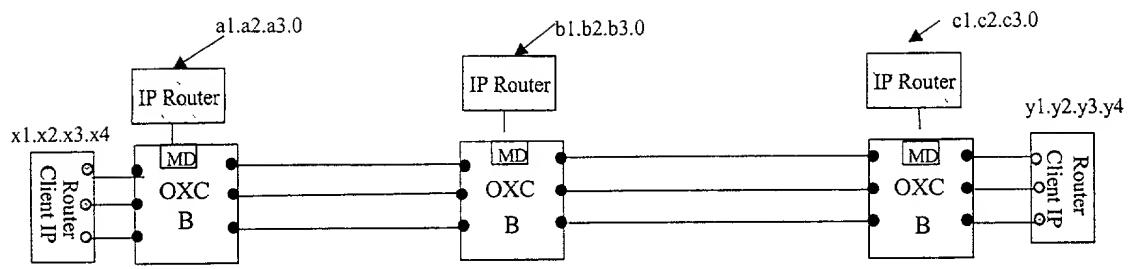


Fig. 4

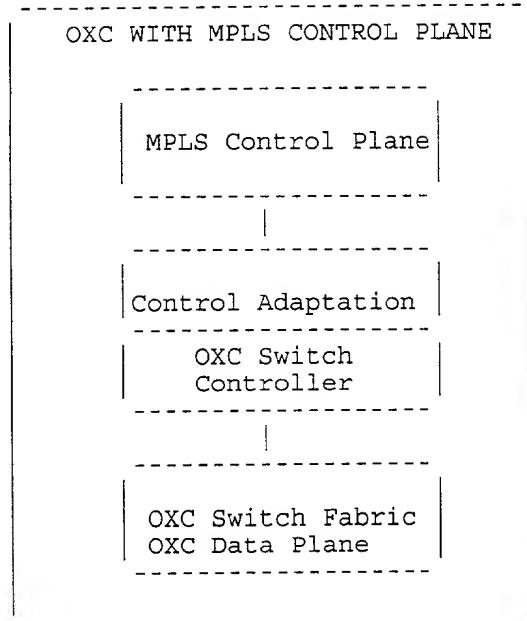
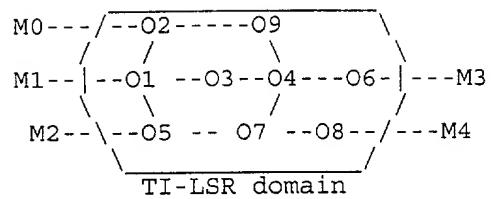


Fig. 5



M_k: A TC-LSR (access routers), O_x: A TI-LSR (OXC)

Fig. 6

0	1	2	3	0	1	2	3	4	5	6	7	8	9	0	1						
0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1
Length				Class Num (19)					C_Type (5)												
Reserved				Link Prot. Type																	
LSP Encoding Type				G-PID																	

Fig. 7

0	1	2	3	0	1	2	3	4	5	6	7	8	9	0	1									
0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1			
U F	0x0901				Length																			
Reserved				Link Prot. Type																				
LSP Encoding Type				G-PID																				

Fig. 8

0	1	2	3
0 1 2 3 4 5 6 7 8 9	0 1 2 3 4 5 6 7 8 9	0 1 2 3 4 5 6 7 8 9	0 1
Length		Class Num (16)	
		C_Type (2)	
Link ID			
Label			
...			

Fig. 9

0	1	2	3
0 1 2 3 4 5 6 7 8 9	0 1 2 3 4 5 6 7 8 9	0 1 2 3 4 5 6 7 8 9	0 1
U F	0x0902	Length	
		Link ID	
		Label	
		...	

Fig. 10

Fig. 11

0	1	2	3
0 1 2 3 4 5 6 7 8 9 0	1 2 3 4 5 6 7 8 9 0	1 2 3 4 5 6 7 8 9 0	1 2 3 4 5 6 7 8 9 0 1
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+	+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+	+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+	+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
	Waveband Id		
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+	+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+	+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+	+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
	Start Label		
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+	+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+	+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+	+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
	End Label		
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+	+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+	+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+	+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+

Fig. 12

0	1	2	3
0 1 2 3 4 5 6 7 8 9	0 1 2 3 4 5 6 7 8 9	0 1 2 3 4 5 6 7 8 9	0 1
+-----+-----+-----+-----+	+-----+-----+-----+-----+	+-----+-----+-----+-----+	+-----+-----+-----+-----+
Length	Class Num (xx)	C_Type (xx)	
+-----+-----+-----+-----+	+-----+-----+-----+-----+	+-----+-----+-----+-----+	+-----+-----+-----+-----+
Reserved		Type	
+-----+-----+-----+-----+	+-----+-----+-----+-----+	+-----+-----+-----+-----+	+-----+-----+-----+-----+
Subchannel			
+-----+-----+-----+-----+	+-----+-----+-----+-----+	+-----+-----+-----+-----+	+-----+-----+-----+-----+
. . .			
+-----+-----+-----+-----+	+-----+-----+-----+-----+	+-----+-----+-----+-----+	+-----+-----+-----+-----+

Fig. 13

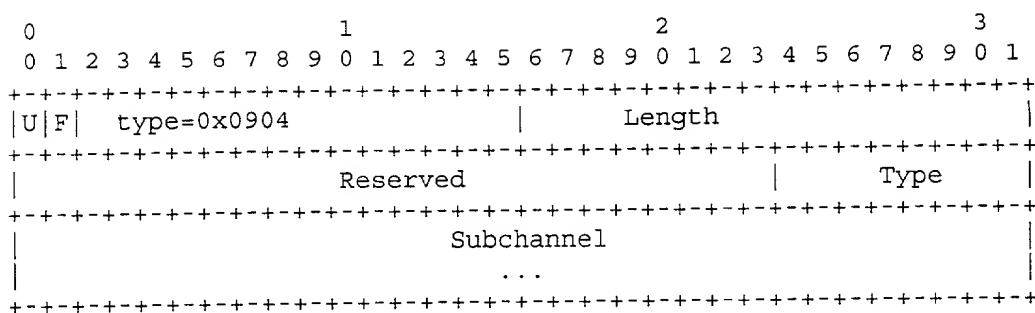


Fig. 14

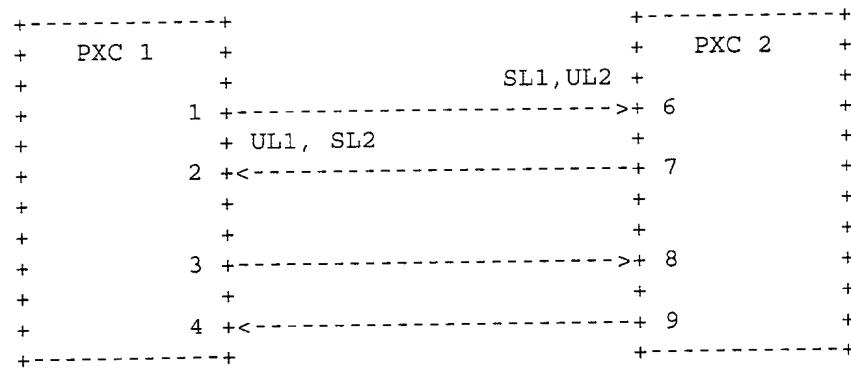


Fig. 15

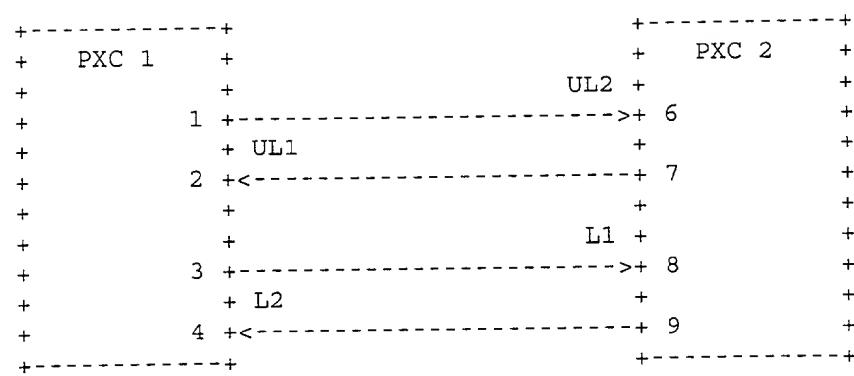


Fig. 14

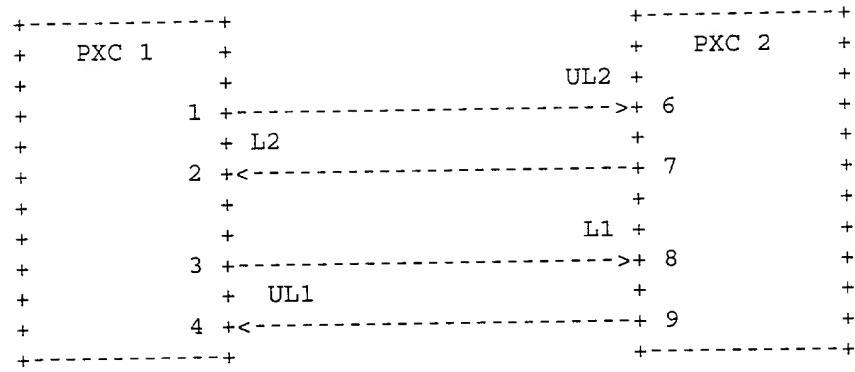


Fig. 17

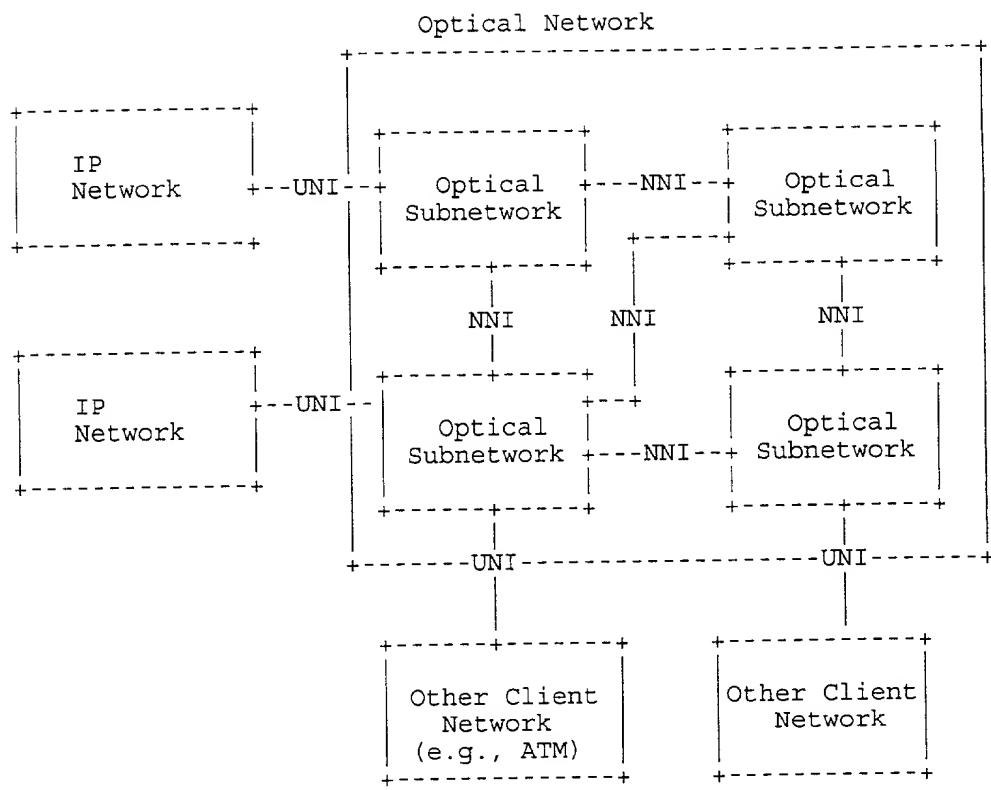


Fig. 18

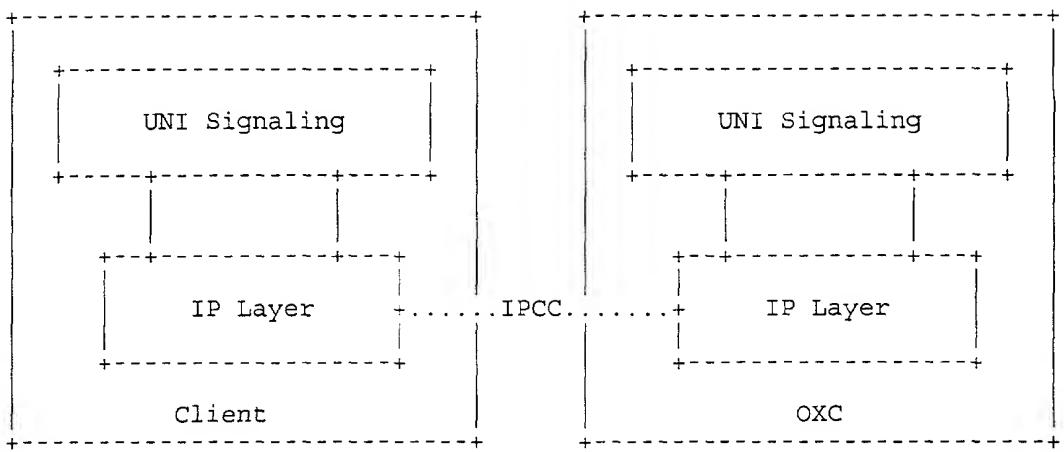


Fig. 19

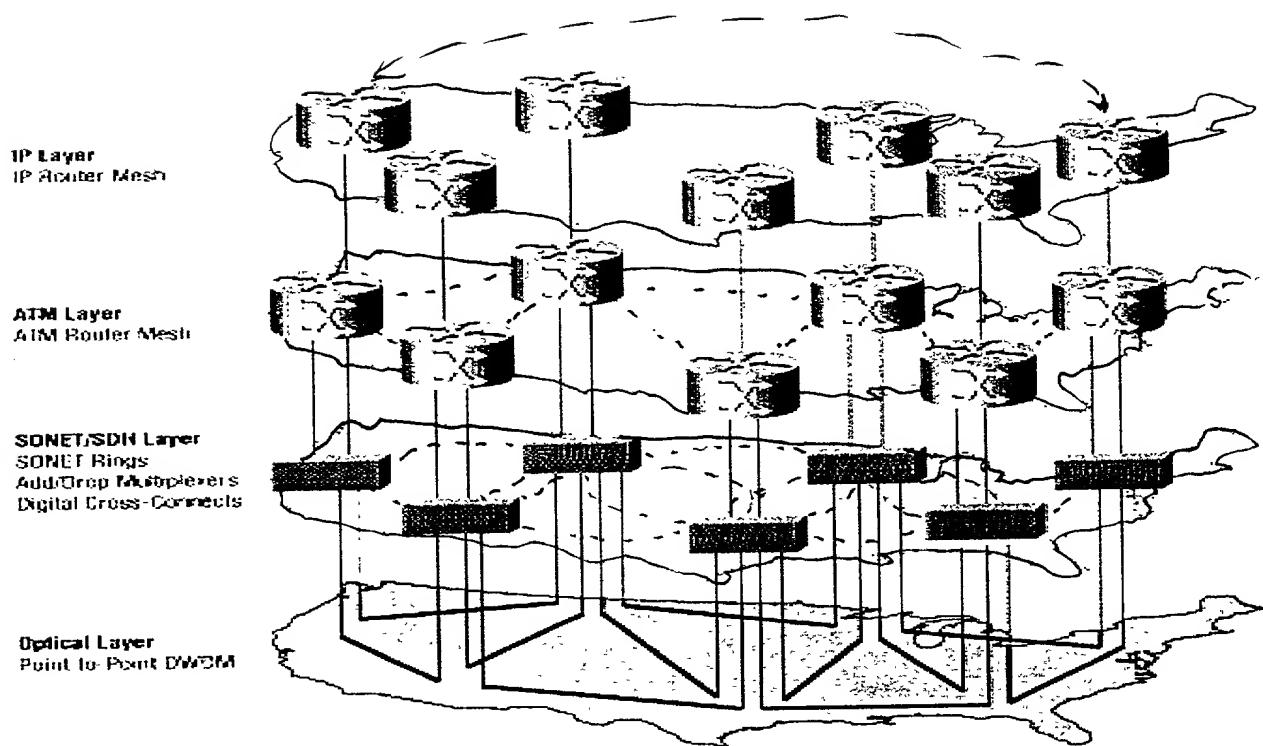


Fig. 20

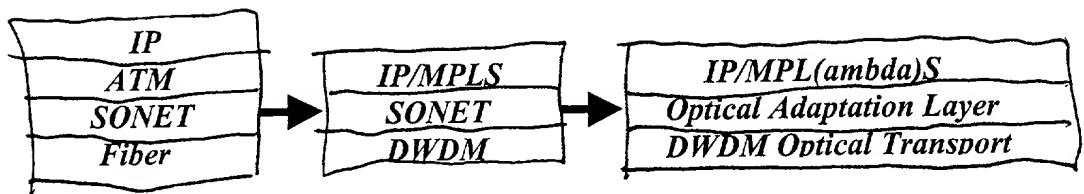


Fig. 21

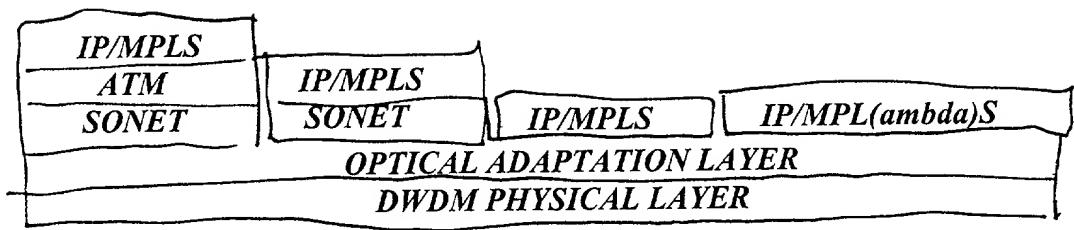
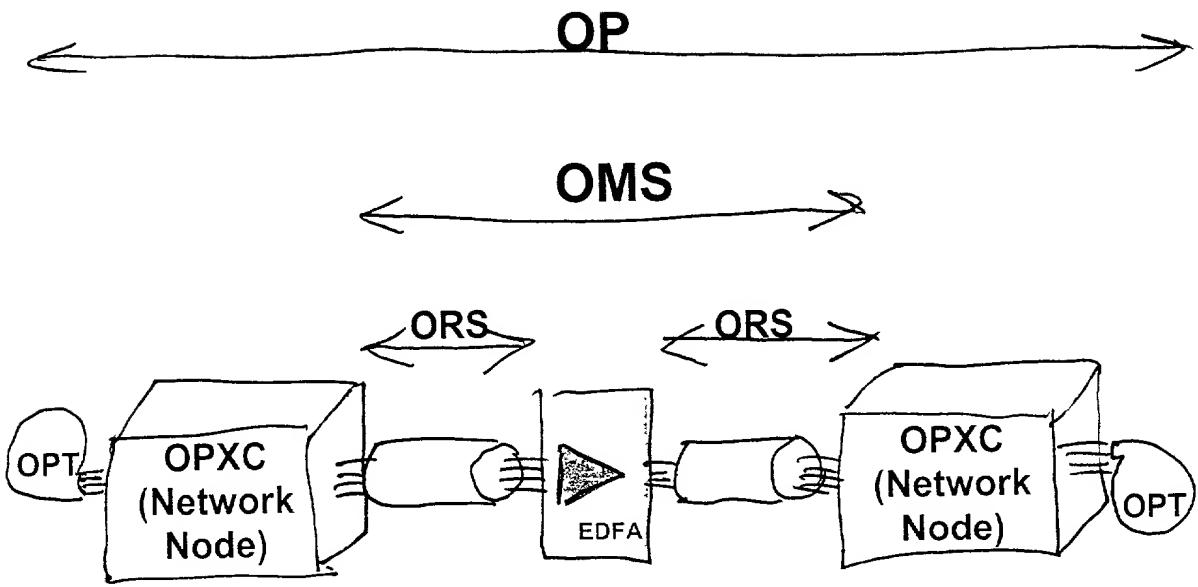


Fig. 22



OP -- Optical Path
 OMS -- Optical Multiplexing Section
 ORS -- Optical Repeater Section
 OPT -- Optical Path Termination
 OPXC -- Optical Path Cross-Connect

Fig. 23

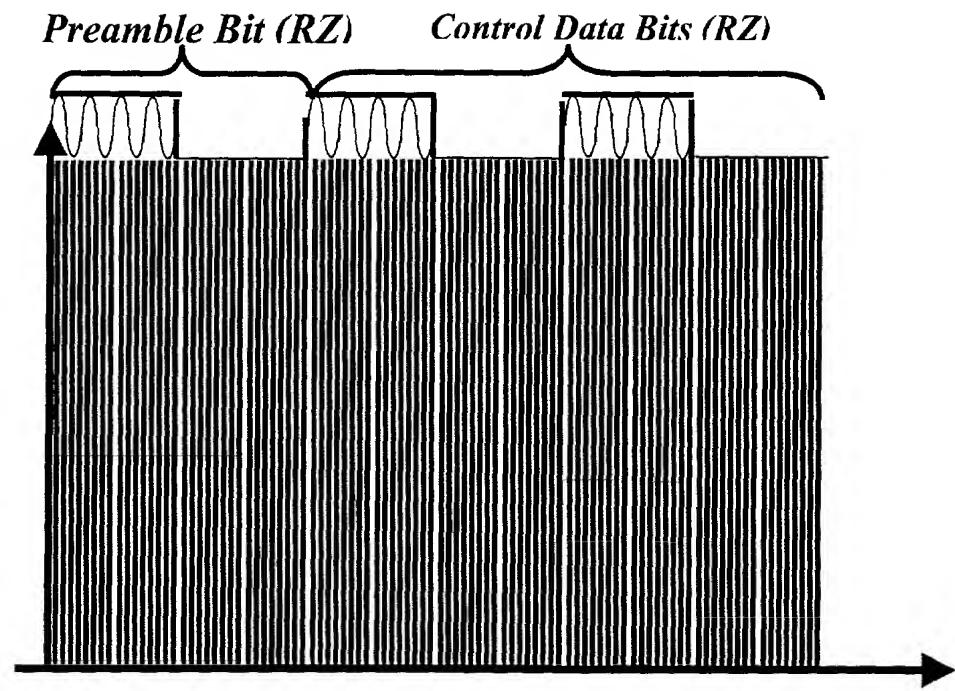


Fig. 24

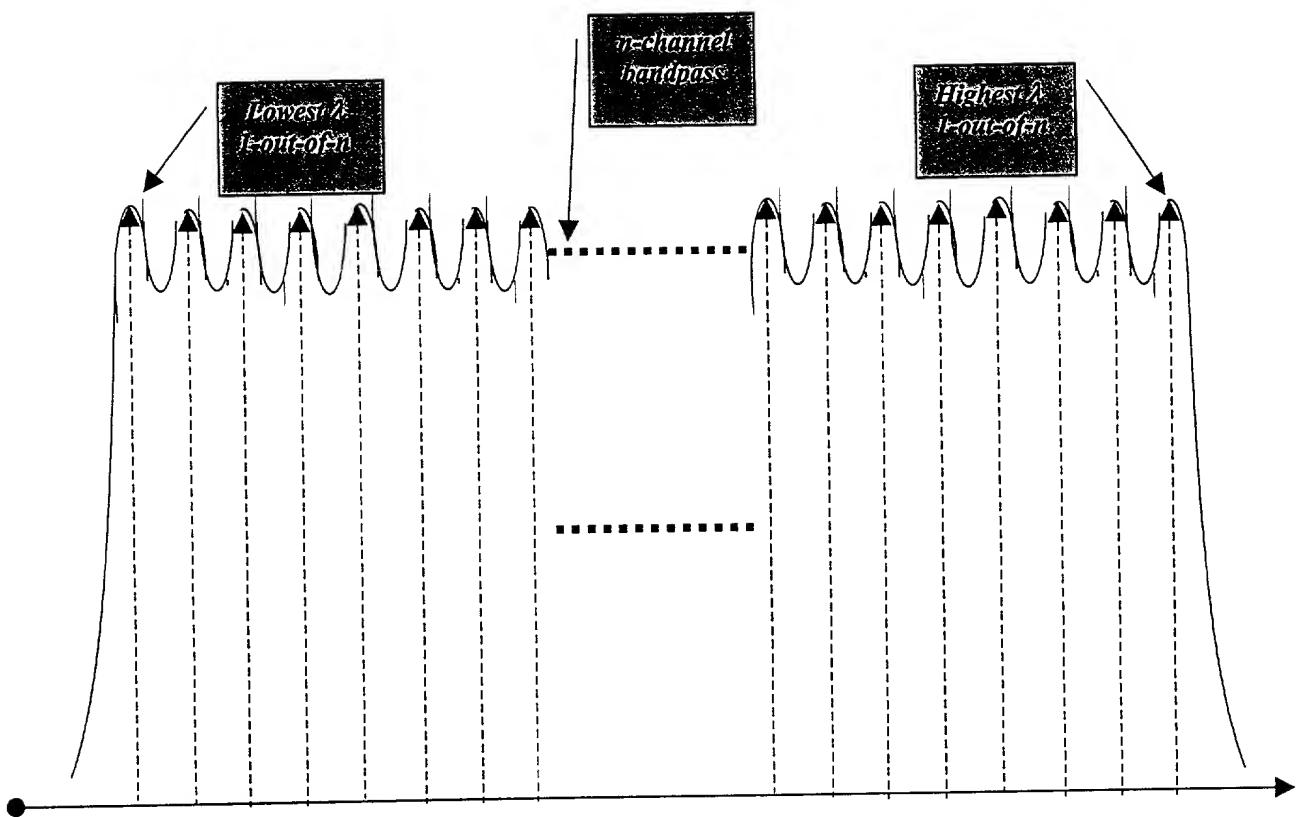


FIG 25

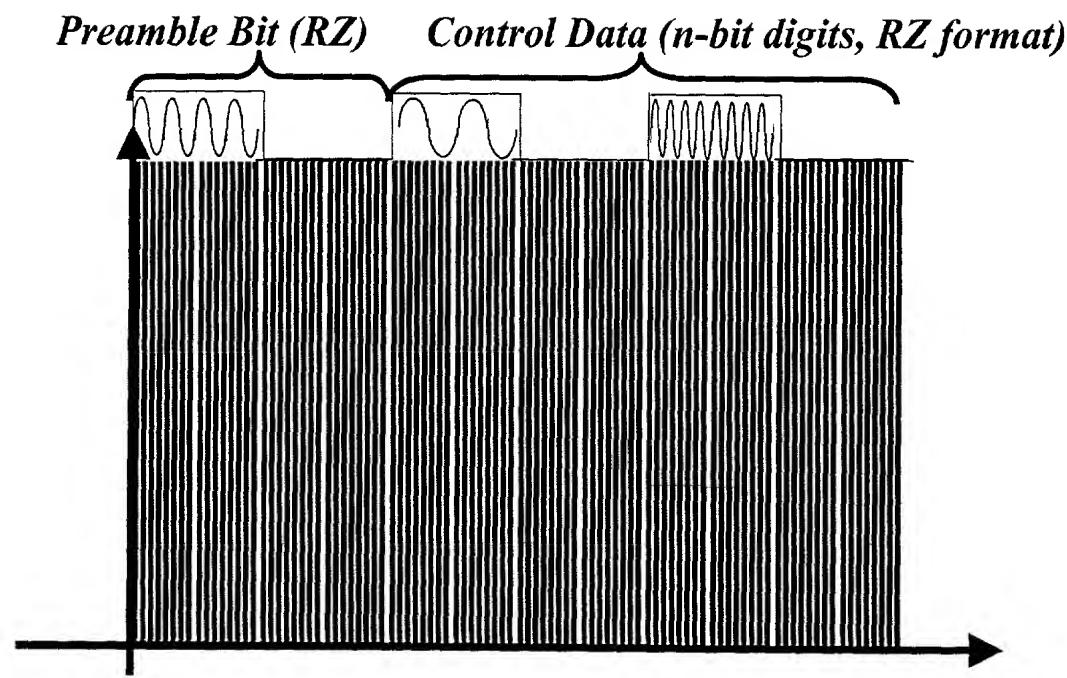


Fig. 26

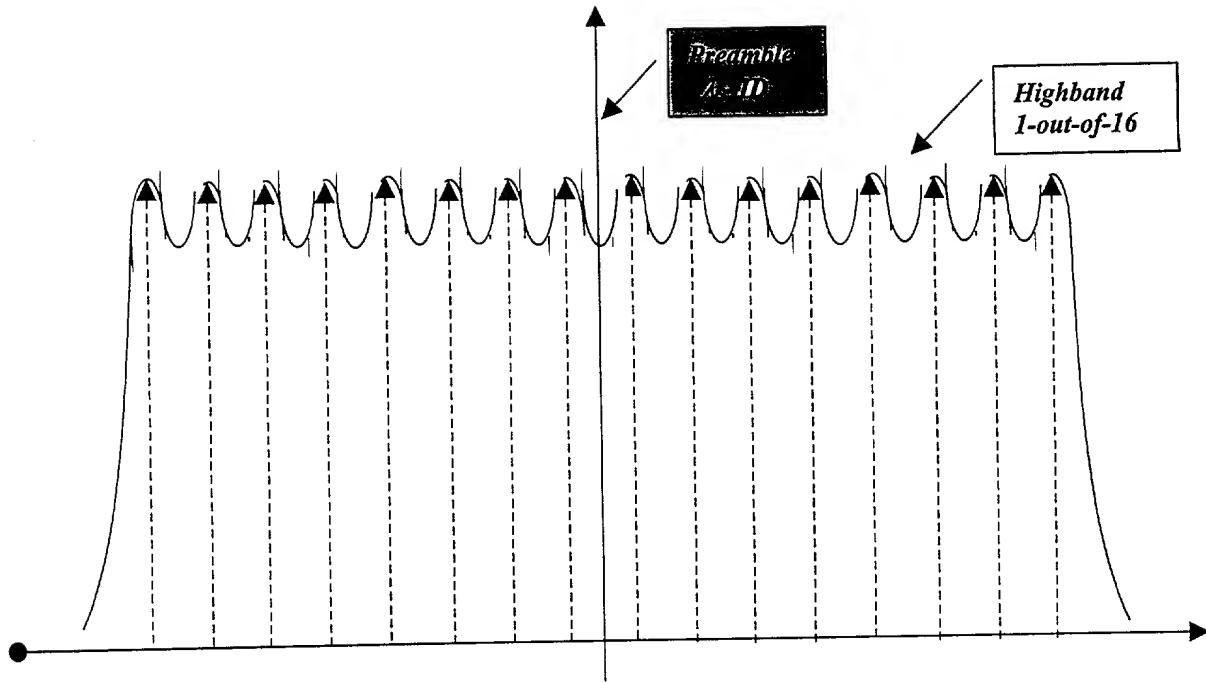


FIG. 27

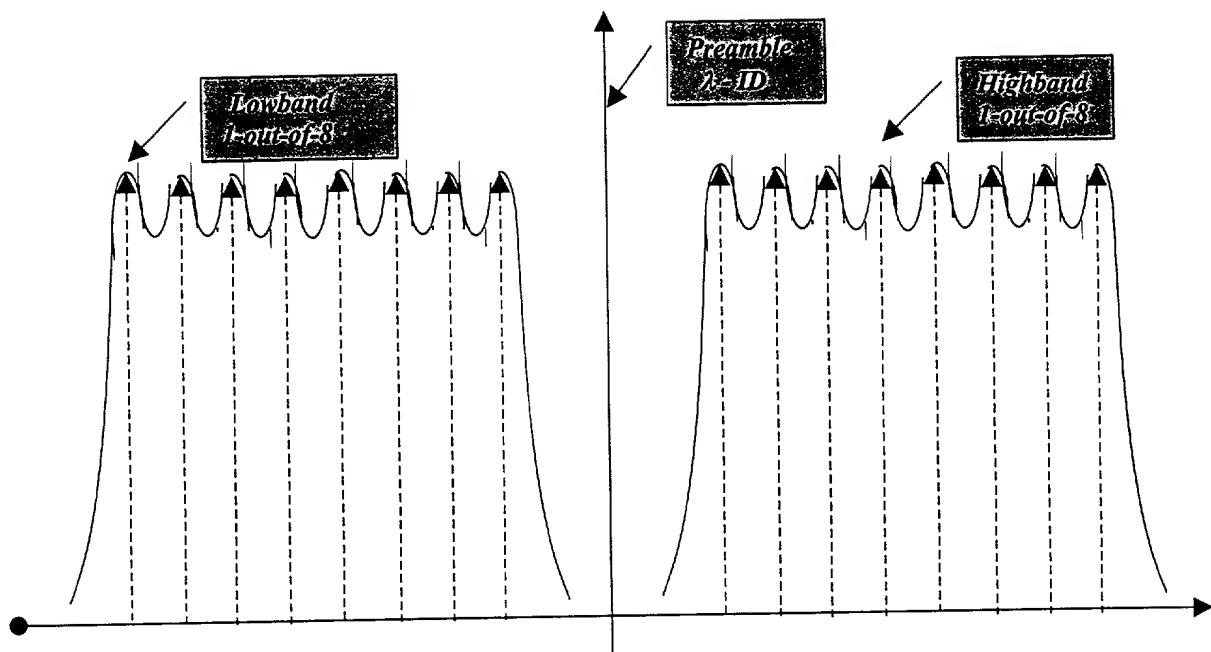


FIG. 28

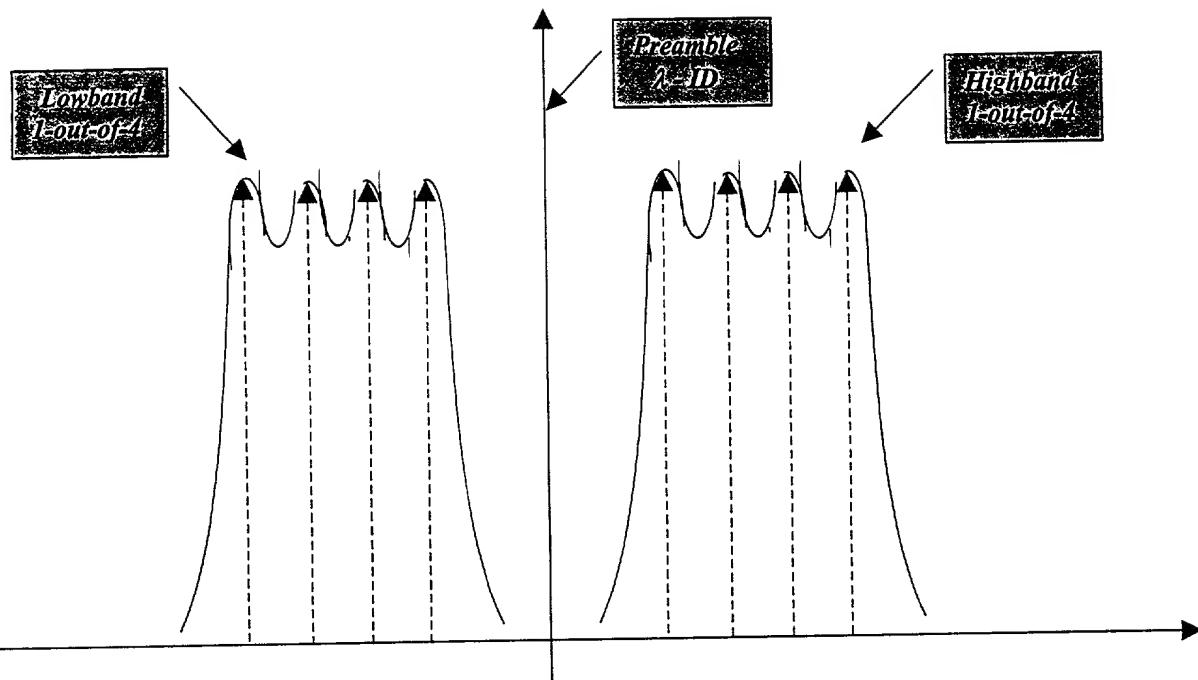


FIG. 29

	<i>120.95kHz</i>	<i>133.65kHz</i>	<i>147.75kHz</i>	<i>163.35kHz</i>
<i>80.15kHz</i>	0000	0001	0010	0011
<i>88.55kHz</i>	0100	0101	0110	0111
<i>97.98kHz</i>	1000	1001	1010	1011
<i>108.21kHz</i>	1100	1101	1110	1111

FIG. 30

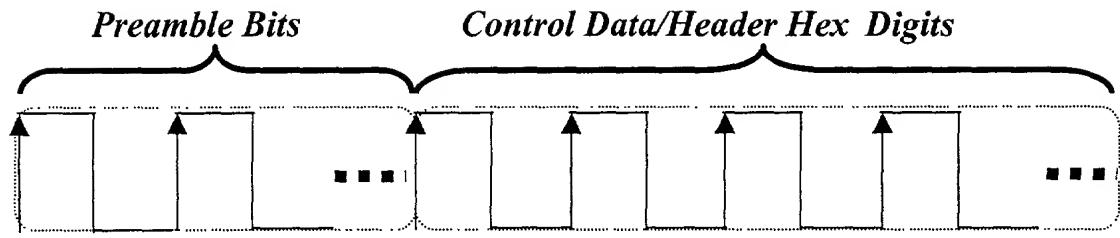


FIG. 31



FIG. 32

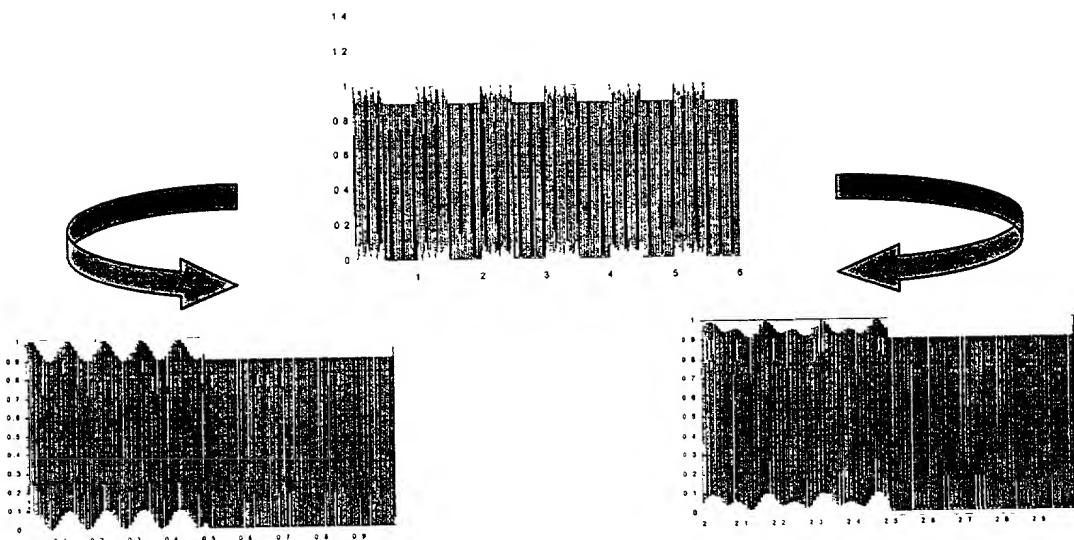


FIG. 33

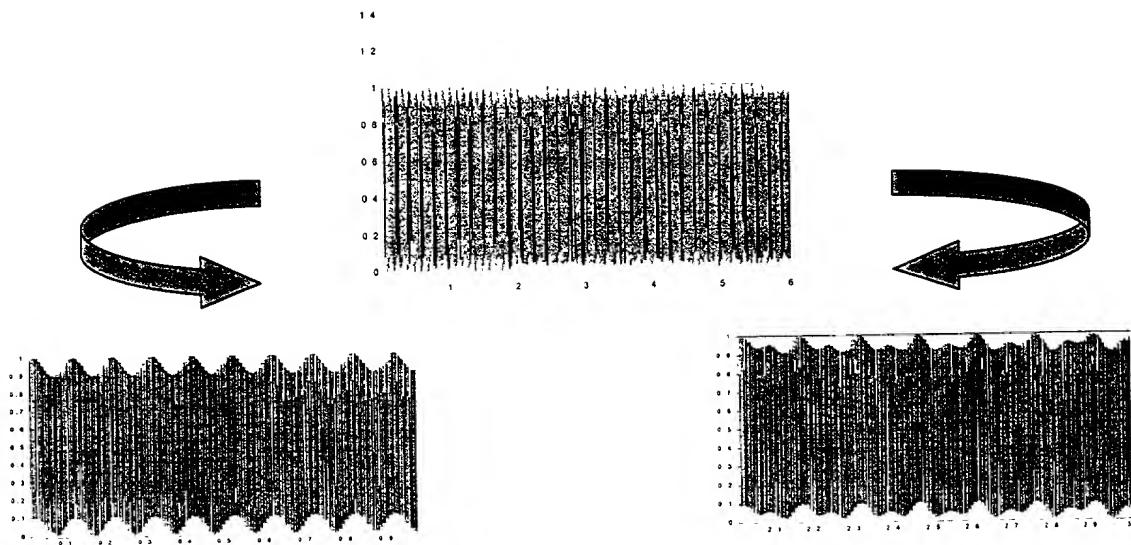


FIG. 34

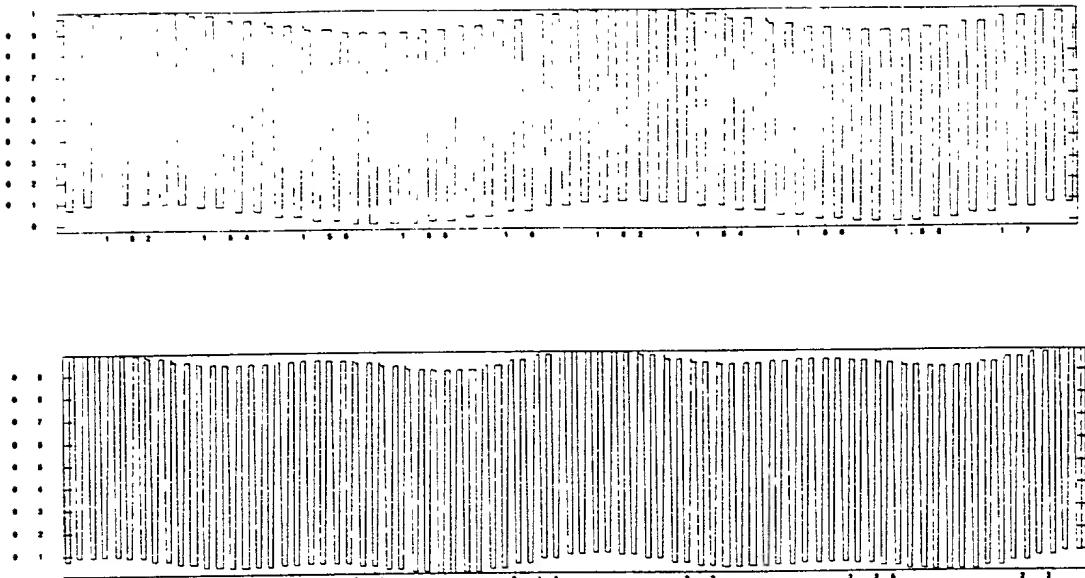


FIG.35

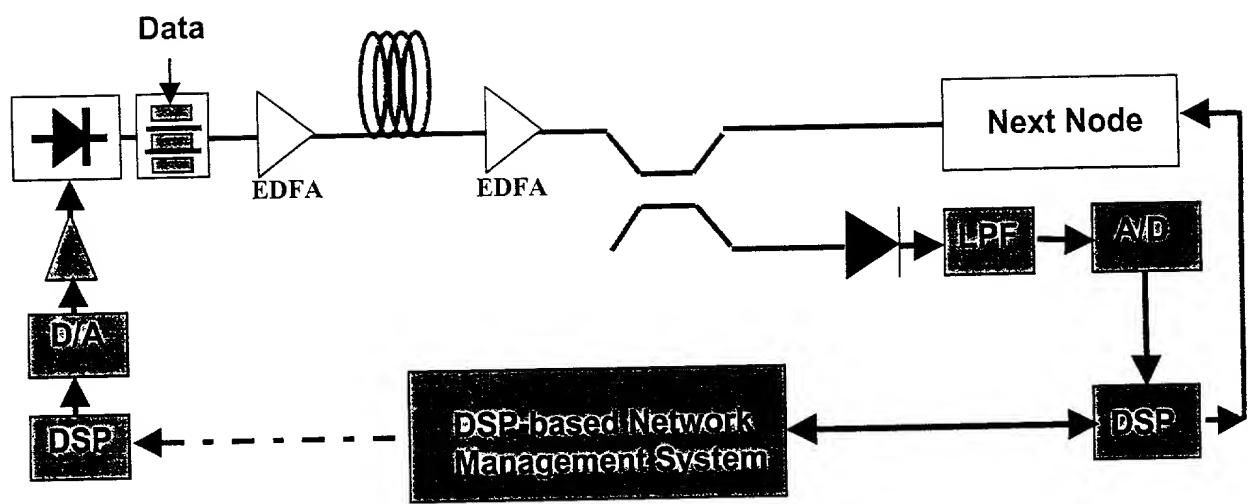


Fig. 36

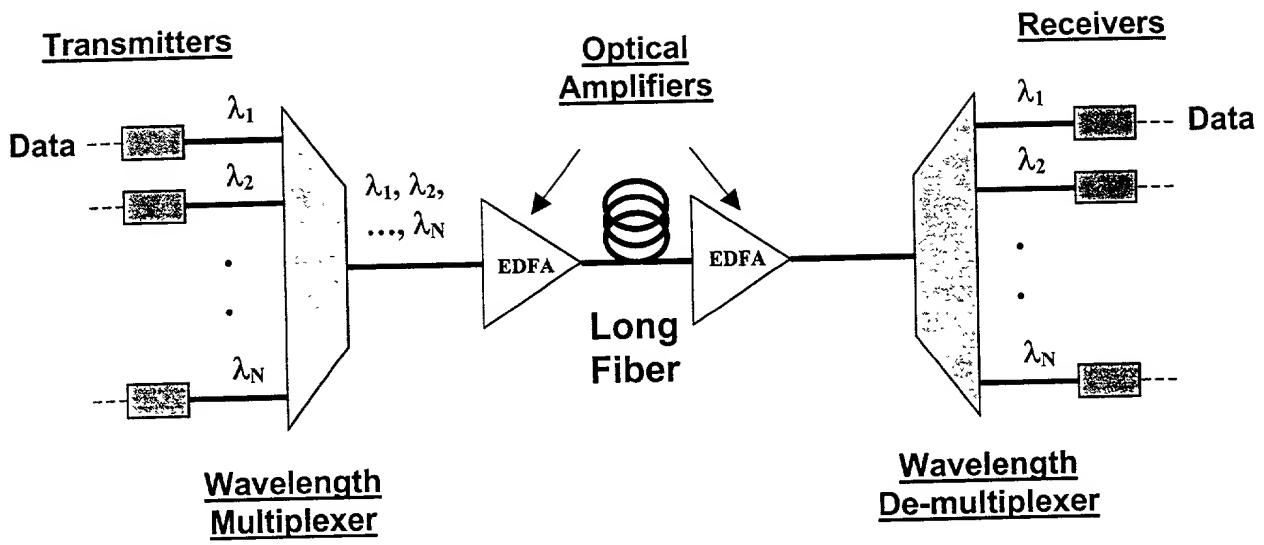


FIG. 37

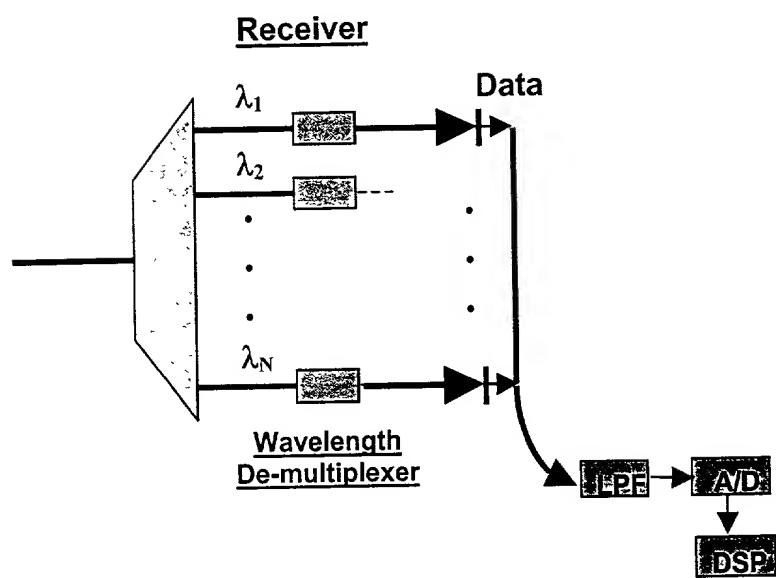
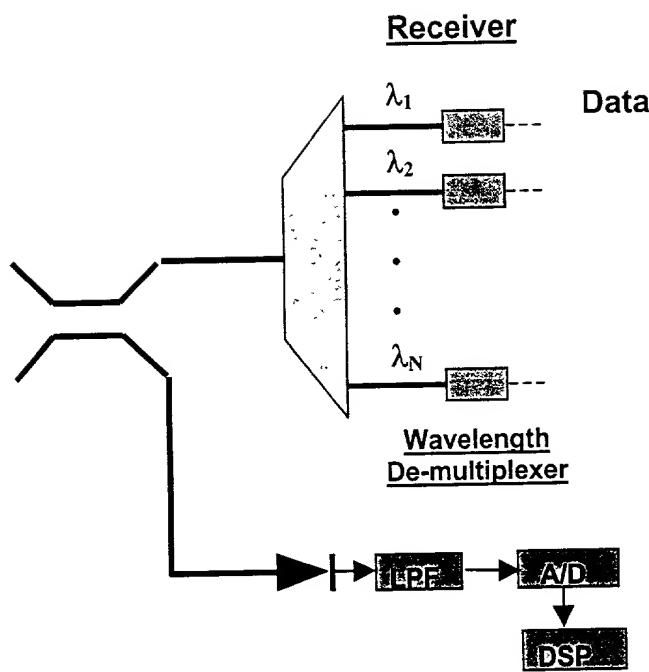


FIG. 38

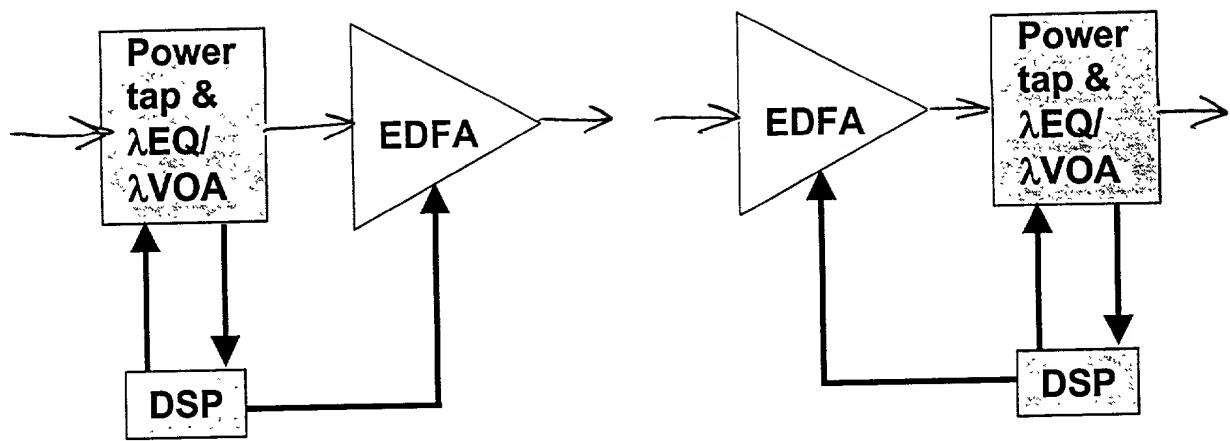


FIG. 39

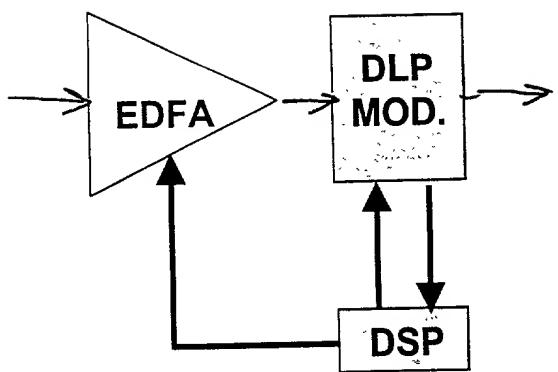


FIG. 40

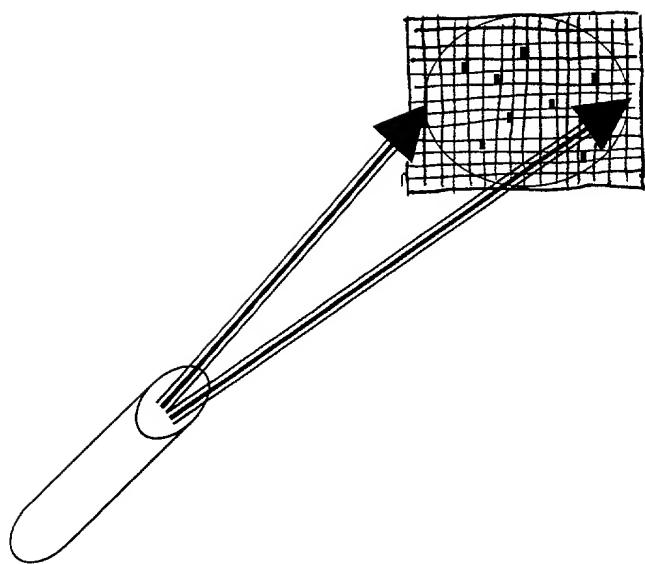


FIG. 41

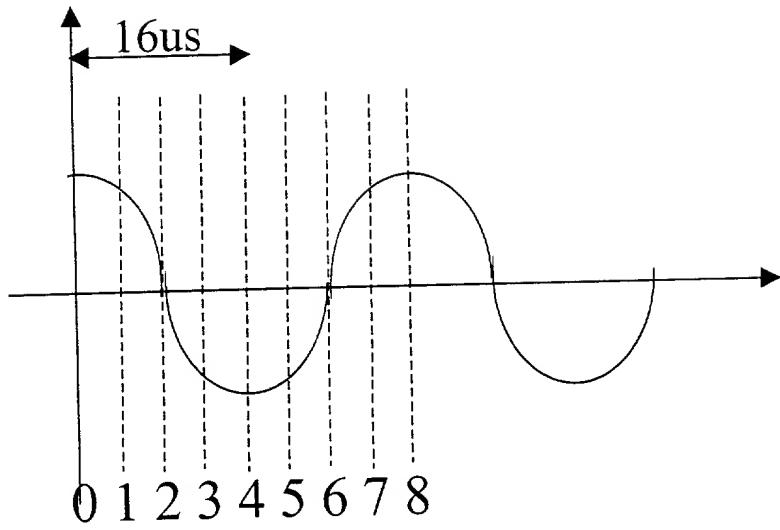


FIG. 42

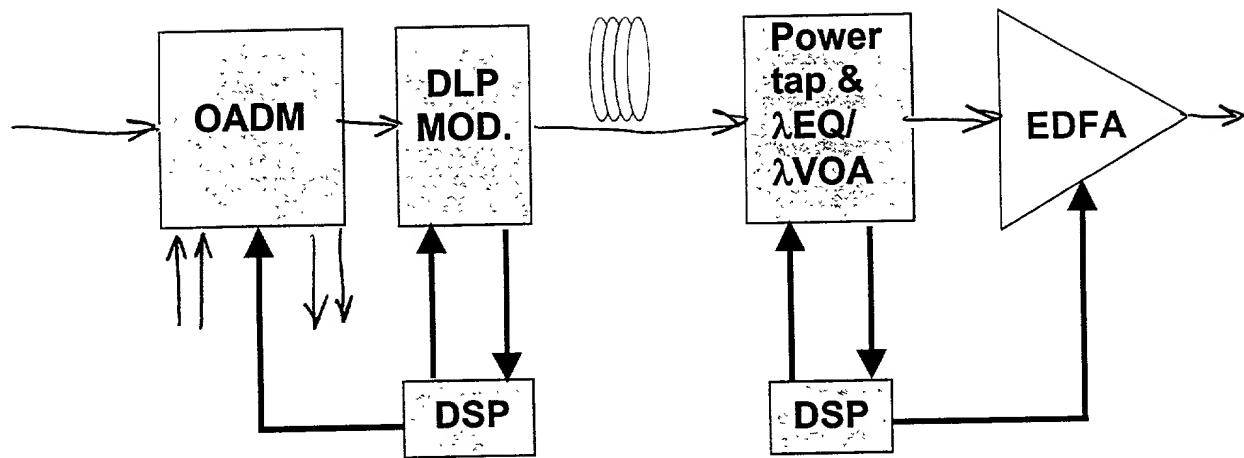


Fig. 43

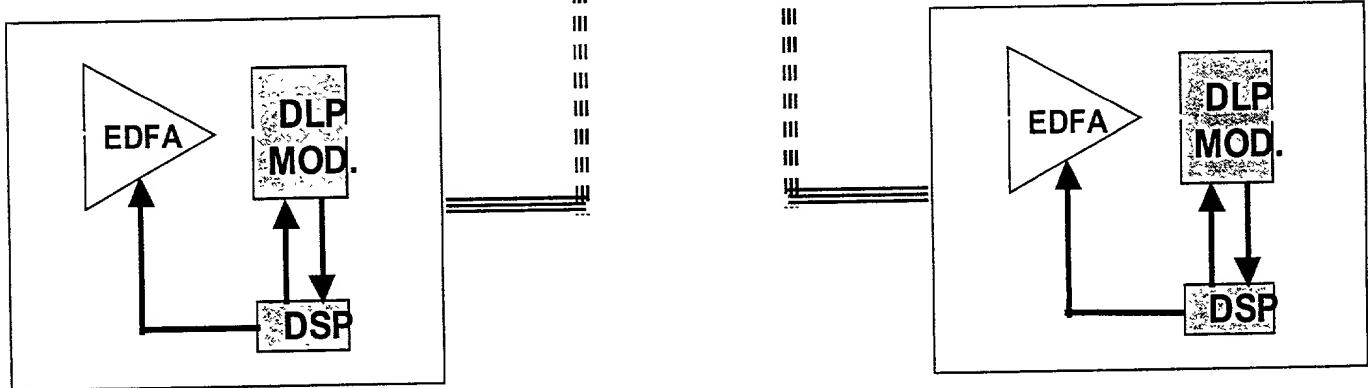
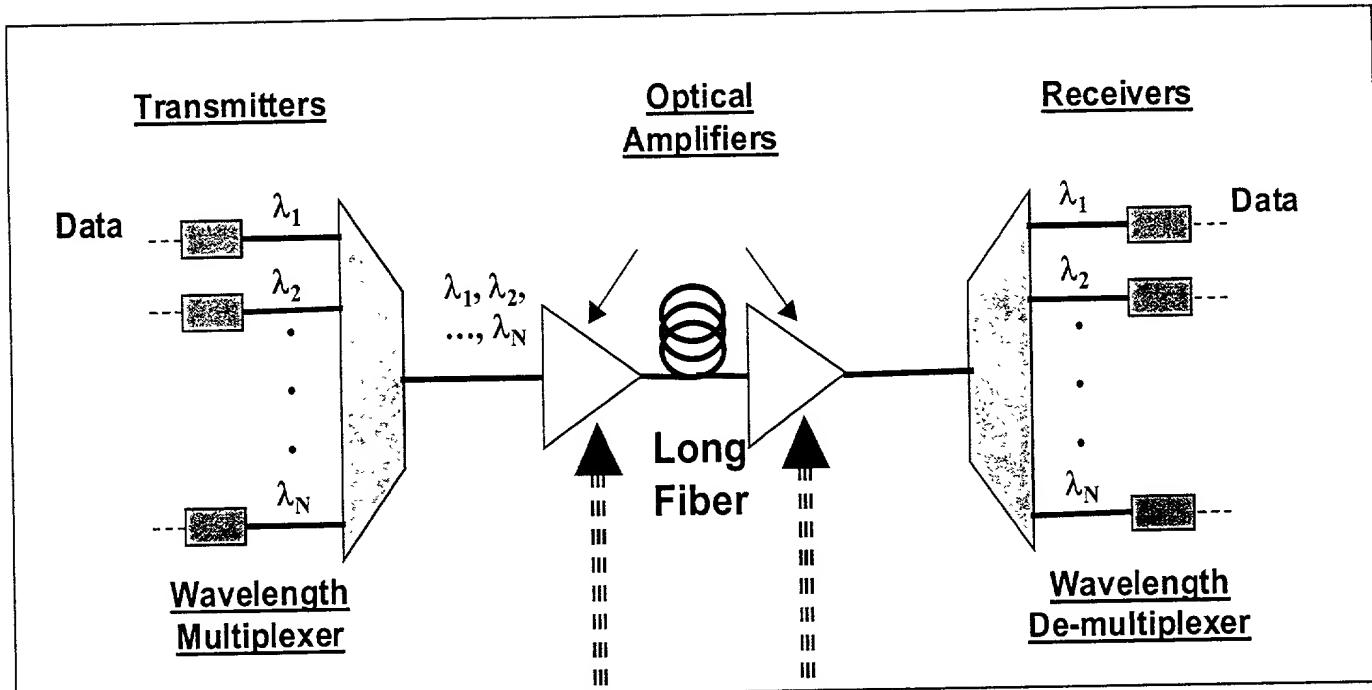


FIG. 44

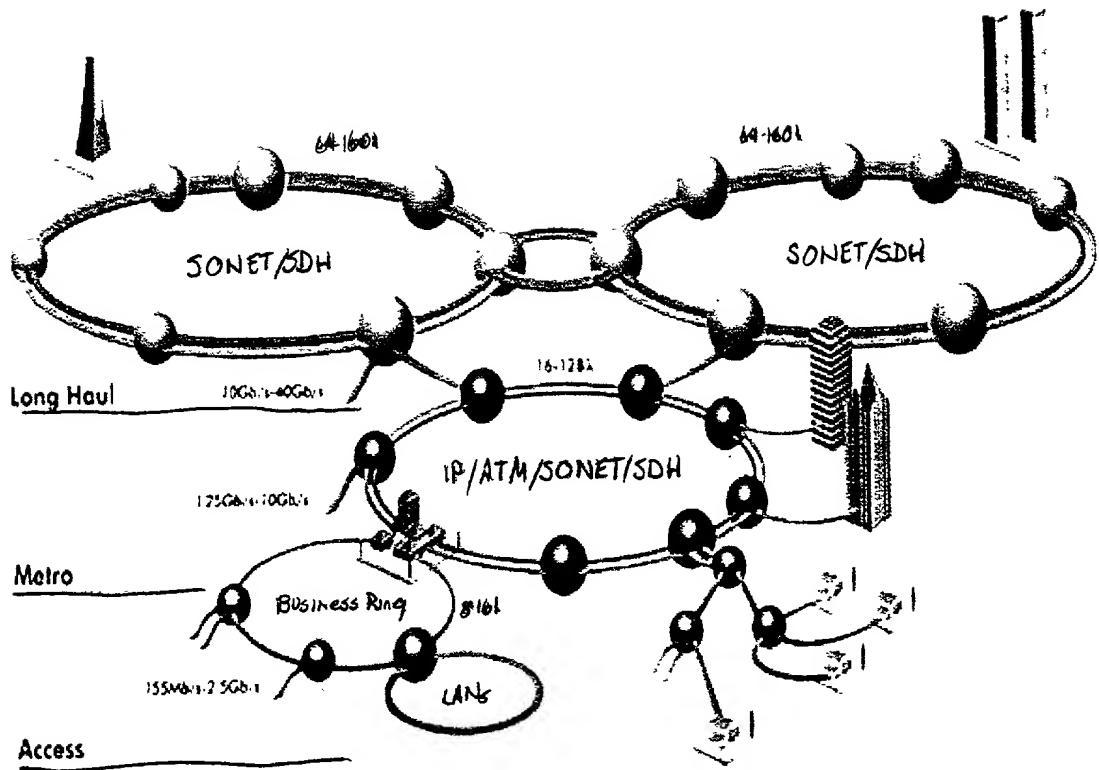


FIG. 45

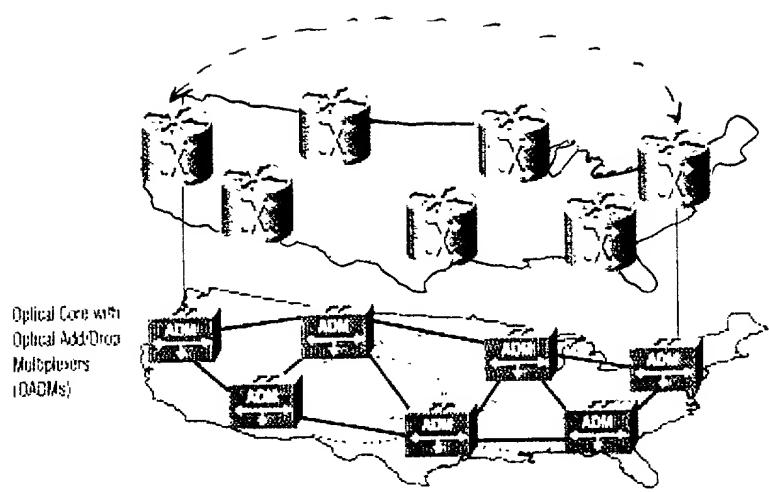


Fig. 46

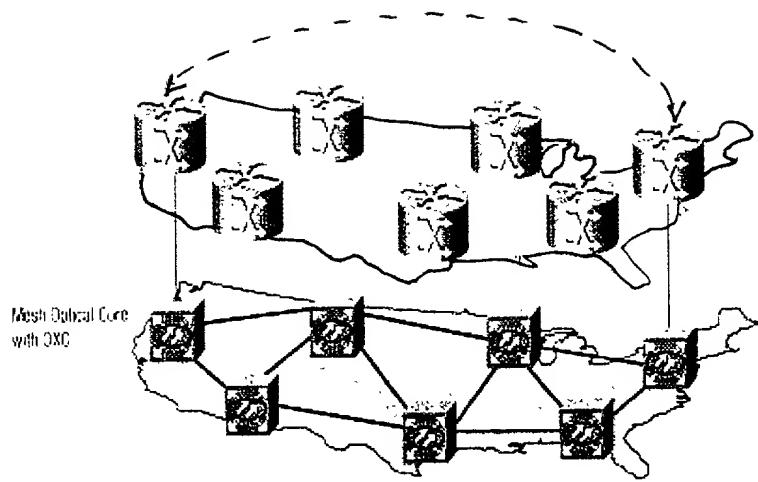


FIG. 47

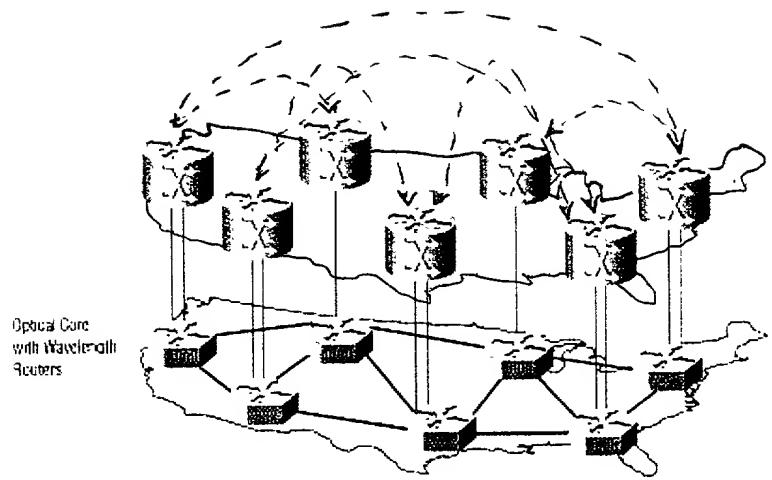


Fig. 4B

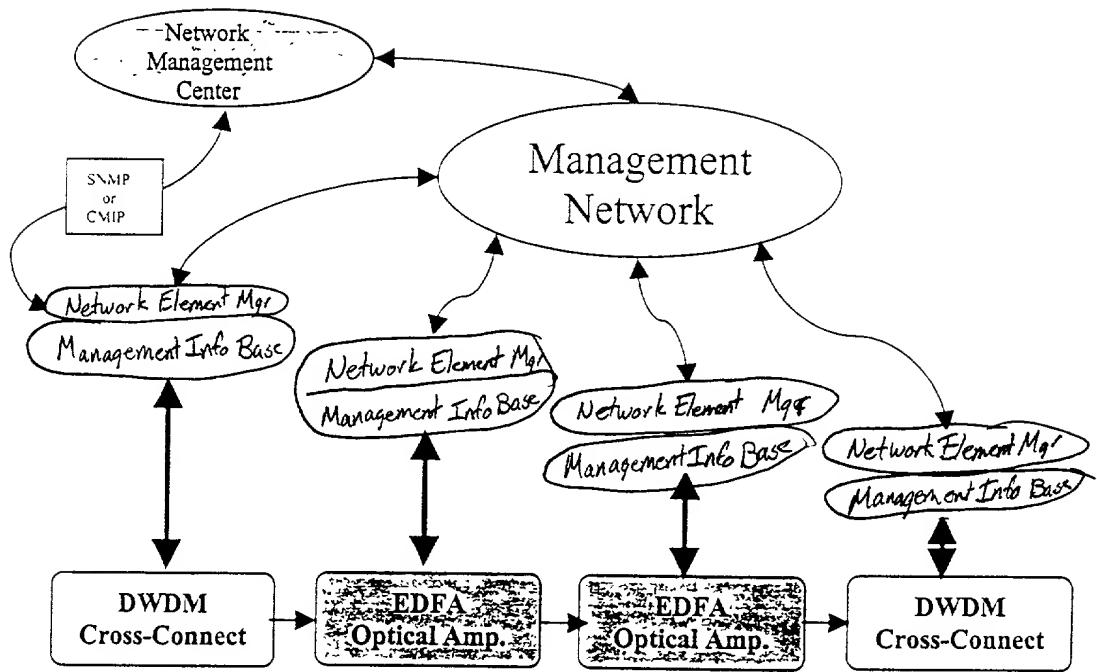


Fig. 49

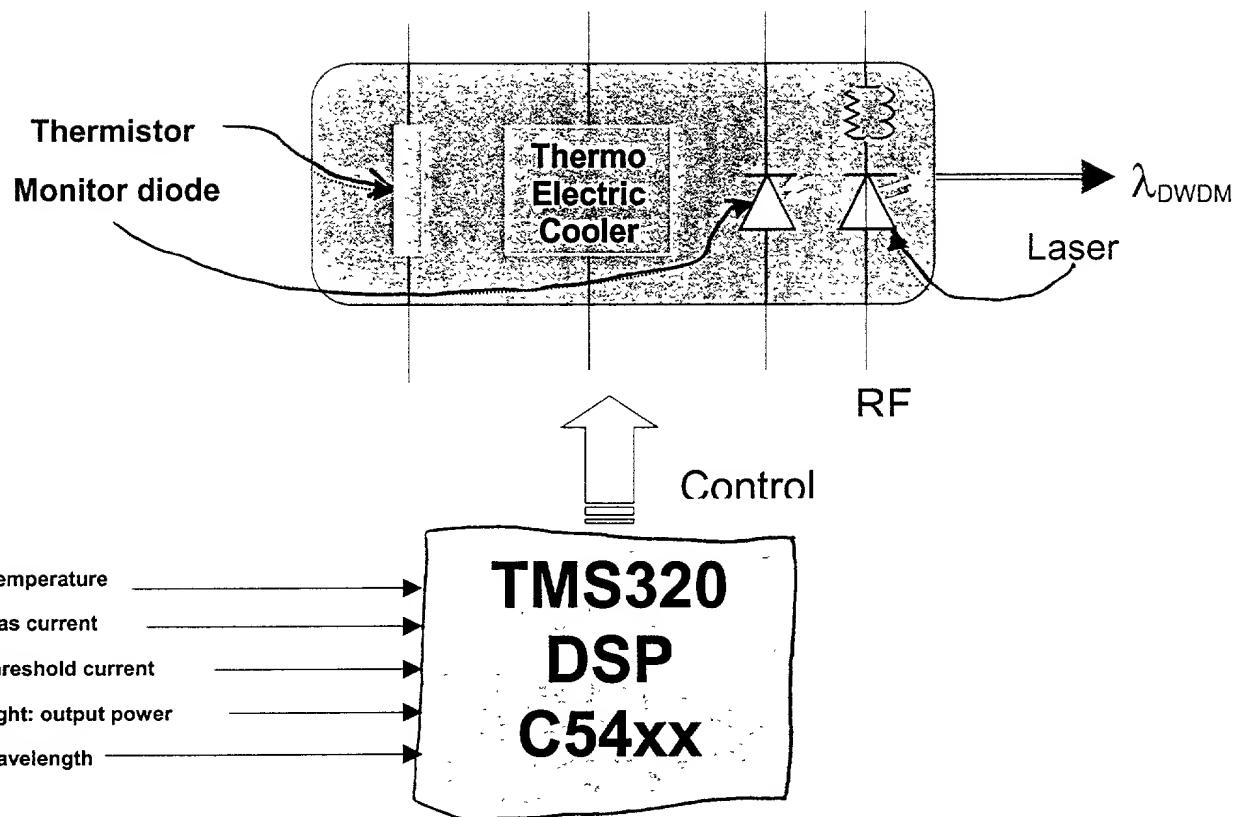
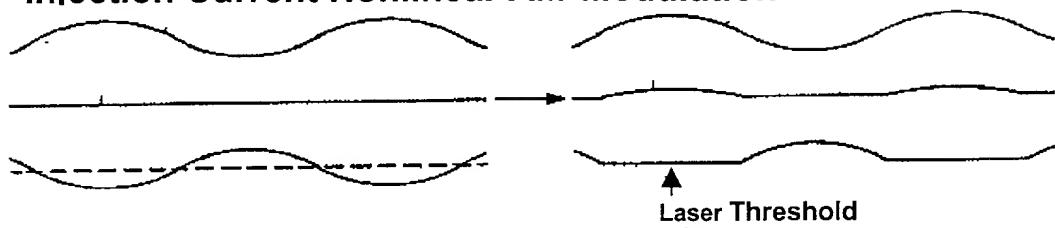


FIG. 50

Injection Current Nonlinear AM Modulation



Injection Current Linear IM Modulation

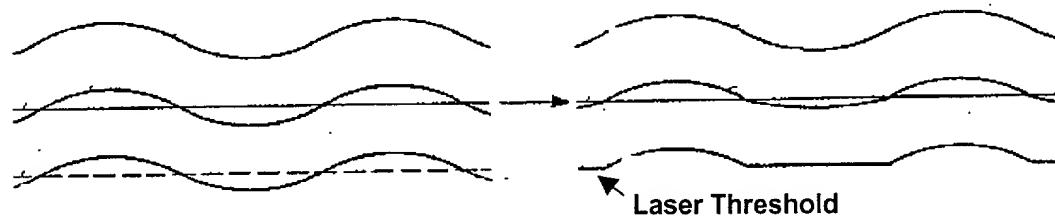


FIG. 51

Injection Current Linear IM Modulation

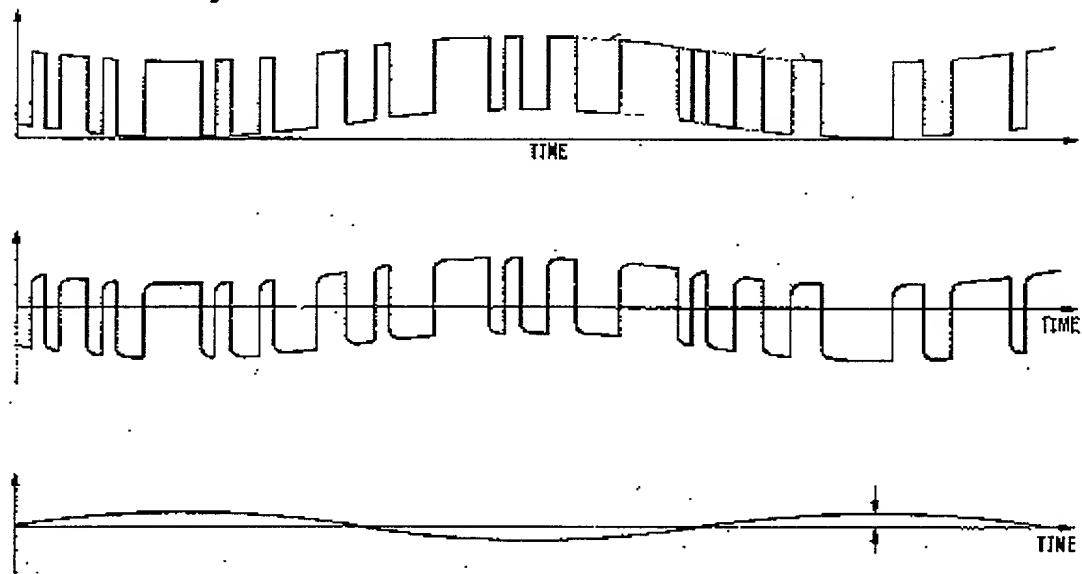


FIG. 52

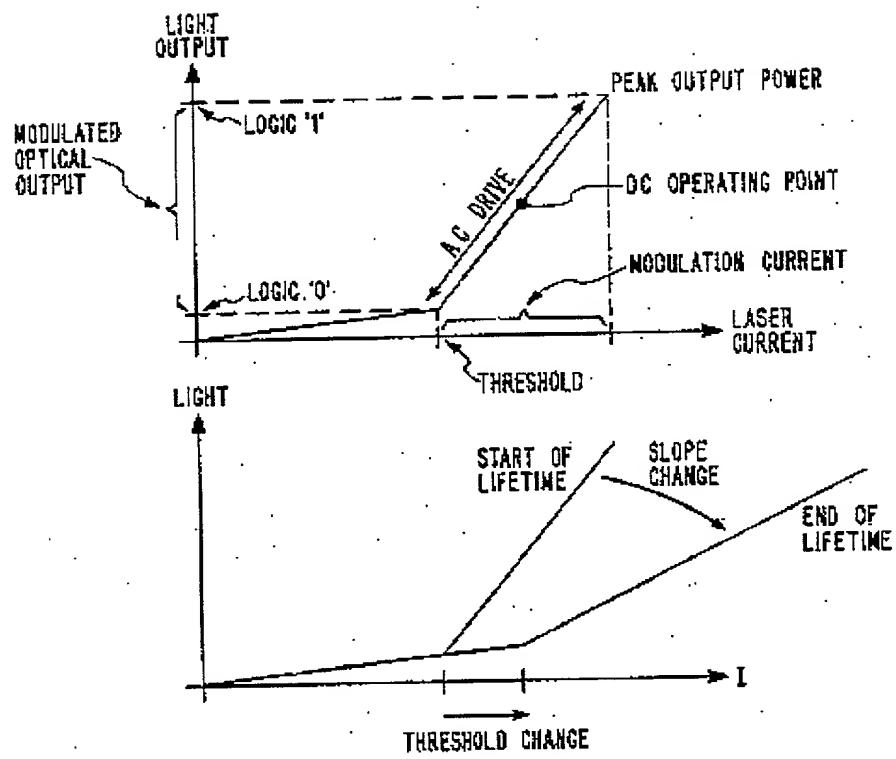


FIG. 53

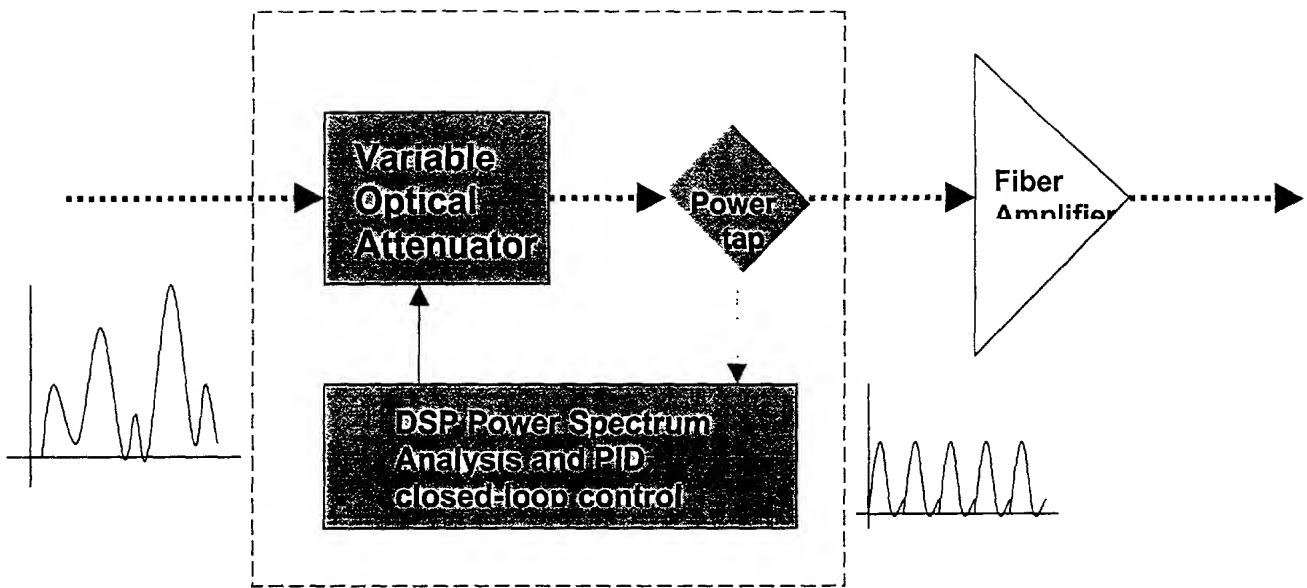
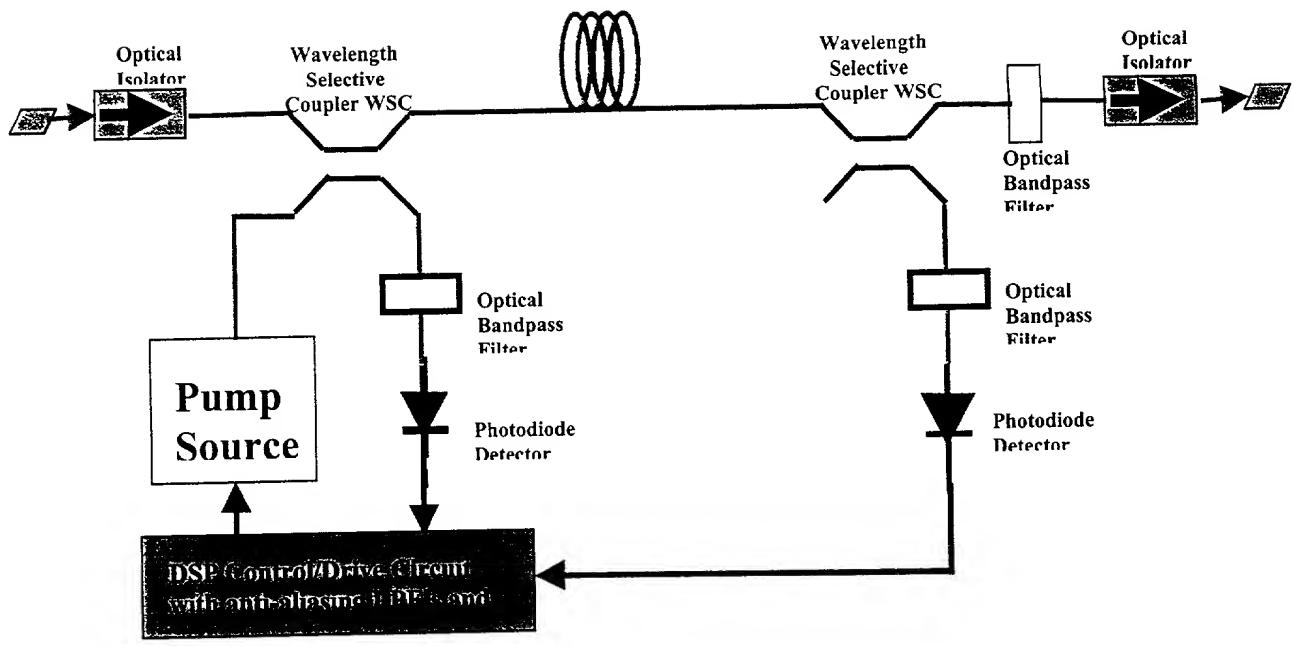


FIG. 54



F₁₆, 55

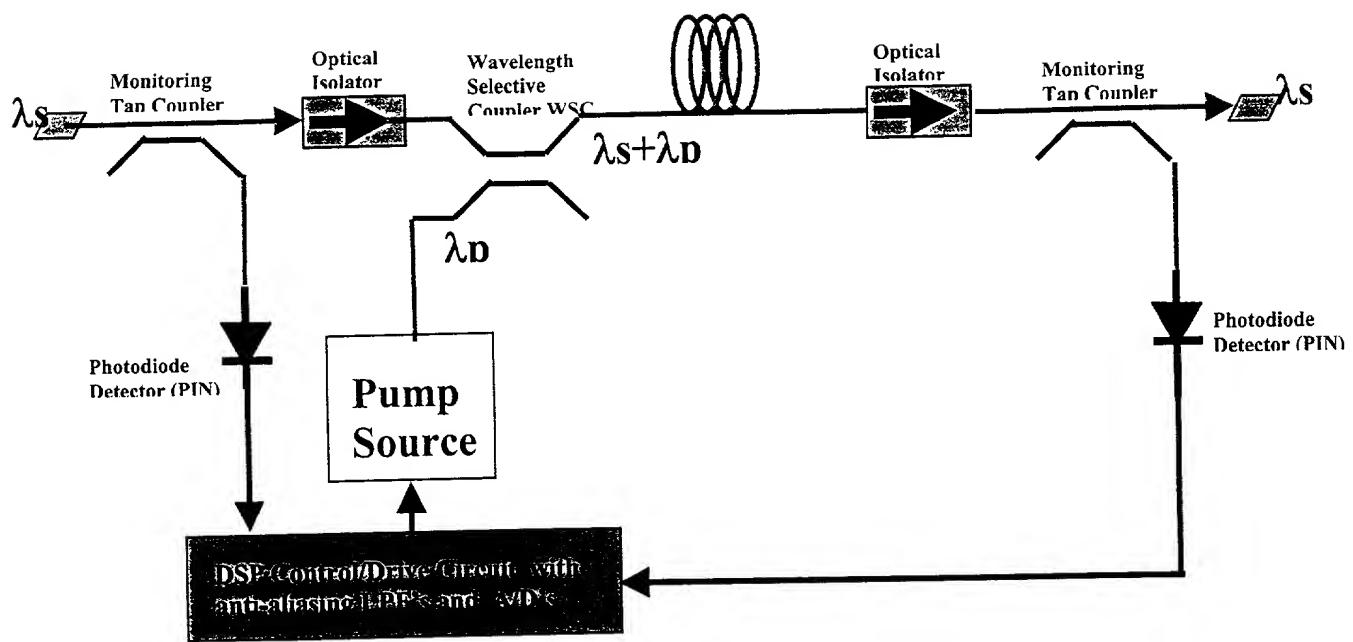


FIG. 56

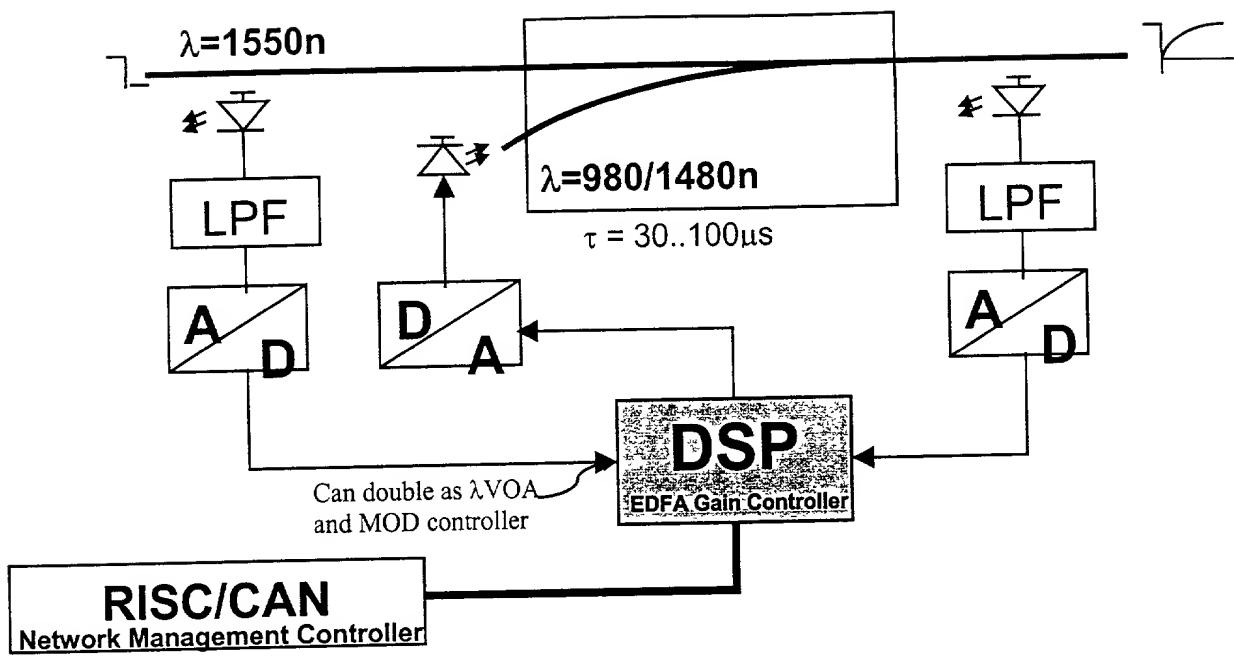


Fig. 57